### PATENT COOPERATION TREATY

### **PCT**

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference TSL1832PCT	FOR FURTHER ACTION	See item 4 below			
International application No. PCT/JP2004/014908	International filing date (day/month/year) 01 October 2004 (01.10.2004)	Priority date (day/month/year) 02 October 2003 (02.10.2003)			
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237					
Applicant DOW CORNING TORAY CO., LTD.					

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).						
2.	This REPORT consists of a total of 5 sheets, including this cover sheet.						
	In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.						
3.	This report contains indications relating to the following items:						
	Box No. I	Basis of the report					
	Box No. Π	Priority					
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
	Box No. IV	Lack of unity of inventi-	on				
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
	Box No. VI	Certain documents cited					
	Box No. VII	Certain defects in the international application					
	Box No. VIII	Certain observations on the international application					
4.	4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis.2).						
			Date of issuance of this report 03 April 2006 (03.04.2006)				
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland			Authorized officer				
			Yoshiko Kuwahara				
	Facsimile No. +41 22 740 14 35 Telephone No. +41 22 338 90 90						
ronn I	PCT/IB/373 (January 2004)						

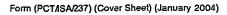
PATENT COOPERATION TREATY

From 1 NTEF	he NATIONAL SEARCHING AUTHO	ORITY		REC'D 0 9 FEB 2005	
To:				PCT	
see form PCT/ISA/220		INTERNATION (F	TEN OPINION OF THE NAL SEARCHING AUTHORITY PCT Rule 43 bis. 1)		
Applicant's or agent's file reference see form PCT/ISA/220			FOR FURTHER ACTION See paragraph 2 below		
International application No. PCT/JP2004/014908		International filing date (c 01.10.2004			
	International Patent Classification (IPC) or both national classification and IPC C07F7/14, C07F7/18				
Appli DO\	cant N CORNING TORAY SILICON	NE CO., LTD.			
1.	<ul> <li>□ Box No. IV Lack of unity of Reasoned state applicability; of Dertain documents of Box No. VII Certain defect of Box No. VIII Certain observations.</li> </ul>	pinion  ment of opinion with region of invention  tement under Rule 43 <i>bis</i> itations and explanations  nents cited  is in the international app	ard to novelty, inventions.1(a)(i) with regard to supporting such state	ve step and industrial applicability novelty, inventive step or industrial tement	
3.	If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.  If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.  For further options, see Form PCT/ISA/220.				

Authorized Officer

Telephone No. +31 70 340-2834

Rinkel, L



Name and malling address of the ISA:

European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/JP2004/014908

	Box	No	. I Basis of the opinion
1.	With	reg lang	gard to the language, this opinion has been established on the basis of the international application in guage in which it was filed, unless otherwise indicated under this item.
		lan	is opinion has been established on the basis of a translation from the original language into the following guage , which is the language of a translation furnished for the purposes of international search ider Rules 12.3 and 23.1(b)).
2.	With	ı re ess	gard to any <b>nucleotide and/or amino acid sequence</b> disclosed in the international application and ary to the claimed invention, this opinion has been established on the basis of:
	a. ty	/pe	of material:
	[	3	a sequence listing
	Ţ	コ	table(s) related to the sequence listing
	b. fo	orm	at of material:
	Į		in written format
	ı		in computer readable form
	c. ti	ime	of filling/furnishing:
			contained in the international application as filed.
			filed together with the international application in computer readable form.
			furnished subsequently to this Authority for the purposes of search.
3	. 🗆	ha co	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto is been filed or furnished, the required statements that the information in the subsequent or additional upies is identical to that in the application as filed or does not go beyond the application as filed, as oppopriate, were furnished.
4	. Ad	ditic	onal comments:

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/JP2004/014908

Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

Claims

1-10

1-10

Inventive step (IS)

Yes: Claims

Claims

Industrial applicability (IA)

Yes: Claims

No:

1-10

No: Claims

2. Citations and explanations

see separate sheet

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/JP2004/014908

#### Re Item V.

1 The following documents are referred to in this communication:

D1: EP 0 589 613 A1 D2: US 5 359 111 A

- The present application claims a process for preparing halosilylated chain hydrocarbons (claims 1-5), and a method of conducting a hydrosilation process (claims 6-10). The compound that is hydrosilated is a diene-type compound, and the process is carried out in the presence of an ether.
- 3 Document D1, which is considered to represent the most relevant state of the art, discloses a process for preparing halosilylated chain hydrocarbons.

From this, the subject-matter of independent claims 1 and 6 differs in that an ether is used during hydrosilation process. The effect of this difference appears an improvement of the hydrosilation process as compare to a process without an ether (see examples and comparative examples in the description of the present application; higher hydrosilane reaction efficiency).

- 3.1 The subject-matter of claim 1 is therefore novel (Article 33(2) PCT).
- 3.2 The problem to be solved by the present invention may be regarded as the provision of an improved process for preparing halosilylated chain hydrocarbons (claims 1-5), and a improved method of conducting a hydrosilation process (claims 6-10).

The solution to this problem proposed in claims 1 and 6 of the present application is considered as involving an inventive step (Article 33(3) PCT) for the following reasons. There are teachings in the available prior art that pertain to controlling the hydrosilation of diene-type compounds (e.g. document D2 teaches the use of oxygen to control the hydrosilation process). However, there appear to be no teachings that would allow a person skilled in the art to modify the teachings of D1 so as to arrive at the present invention.